## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp	
L1	6006	((first ADJ2 (group OR unit)) NEAR2 positive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 13:57	
L2	5550	((second ADJ2 (group OR unit)) NEAR2 negative)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SOCR; EPO; JPO; ERWENT;		2009/04/22 13:57	
L3	5091	((third ADJ2 (group OR unit)) NEAR2 positive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	; OR OFF		2009/04/22 13:59	
L4	2981	((fourth ADJ2 (group OR unit)) NEAR2 positive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 13:59	
L5	1049	((fifth ADJ2 (group OR unit)) NEAR2 positive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 13:59	
L6	47421	(((variable ADJ (foc\$2 OR power OR magnification)) OR zoom OR vari\$1foc\$2) ADJ2 (lens OR optic \$2 OR imag\$3 OR objective))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	1.03		2009/04/22 13:59	
L7	193	L1 SAME L2 SAME L3 SAME L4 SAME L5 SAME L6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR OFF		2009/04/22 13:59	
L8	22227	((first ADJ2 (group OR unit)) AND (third ADJ2 (group OR unit)) AND (fifth ADJ2 (group OR unit))) SAME (fixed OR stationary) SAME ((zoom\$3 OR ((magnification focal ADJ length) NEAR2 (chang\$3 vari\$4 increas \$3)))) OR ((wide ADJ angle) ADJ2 (mode end state) SAME telephoto ADJ2 (mode end state) SAME (shift\$3 chang\$3))	{		OFF	2009/04/22 14:00	
L9 4181		((second ADJ2 (group OR unit)) AND (fourth ADJ2 (group OR unit))) SAME (mov\$3 OR movable OR shift\$3) SAME ((zoom\$3 OR ((magnification focal ADJ length) NEAR2 (chang \$3 vari\$4 increas\$3)))) OR ((wide ADJ angle) ADJ2 (mode end state) SAME telephoto ADJ2 (mode end state) SAME (shift\$3 chang\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:01	

L10	2196	L8 AND L9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:01
L11	18	@PD>="20081209" AND (L7 AND L8 AND L9)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:02
L12	5909	(((third ADJ2 (group OR unit)) SAME (aperture OR diaphragm OR stop))	US-PGPUB; USPAT; OR OFF USOCR; EPO; JPO; DERWENT; IBM_TDB		2009/04/22 14:02	
L13	16	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB			2009/04/22 14:03
L14	1825	(((fifth NEAR2 (group OR unit)) SAME (positive AND negative) SAME (lens OR element OR component OR sub\$1group OR sub\$1unit OR (sub ADJ lens ADJ group) OR (sub ADJ lens ADJ unit) OR sub\$1lens\$1group OR sub\$1lens\$1unit))	US-PGPUB; USPAT; OR OFF USOCR; EPO; JPO; DERWENT; IBM_TDB		2009/04/22 14:03	
L15	16	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12 AND L14)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SOCR; EPO; JPO; ERWENT;		2009/04/22 14:04
L16	112	(((fifth NEAR2 (group OR unit)) SAME (mov\$3 OR movable OR shift\$3) SAME perpendicular ADJ2 (optical ADJ axis))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR OFF		2009/04/22 14:05
L17	1	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12 AND L14 AND L16)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR OFF		2009/04/22 14:06
L18	1868	(condition\$2 OR expression\$1 OR relation\$1 OR relationship\$1 OR equation\$1) SAME (fifth ADJ2 (group OR unit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR OFF		2009/04/22 14:06
L19	13	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12 AND L14 AND L18)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB			2009/04/22 14:07
L20	1	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12 AND L14 AND L16 AND L18)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:08

L21	20132	(condition\$2 OR expression\$1 OR relation\$1 OR relationship\$1 OR equation\$1) SAME (fifth ADJ2 (group OR unit)) SAME foc \$2 SAME (positive ADJ2 (lens OR element OR component OR sub\$1group OR sub\$1unit OR (sub ADJ lens ADJ group) OR (sub ADJ lens ADJ unit) OR sub \$1lens\$1group OR sub\$1lens \$1unit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:08	
L22	2	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12 AND L14 AND L18 AND L21)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB			2009/04/22 14:09	
L23	0	@PD>="20081209" AND (L7 AND L8 AND L9 AND L12 AND L14 AND L16 AND L18 AND L21)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:10	
L24	2	@PD>="20081209" AND OHTAKE-Motoyuki.IN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:10	
L25	2	@PD>="20081209" AND (Sony). AS. AND L7 AND ((mov\$3 OR movable OR shift\$3) SAME perpendicular ADJ2 (optical ADJ axis))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:12	
L26	20	@PD>="20081209" AND 359/557.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	1.15		2009/04/22 14:13	
L27	31	@PD>="20081209" AND 359/676.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:14	
L28	32	@PD>="20081209" AND 359/684.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:14	
L29	56	@PD>="20081209" AND 396/55. CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:15	
L30	10	@PD>="20081209" AND 396/72. CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR OFF		2009/04/22 14:16	
L31	19	@PD>="20081209" AND (348/240.99).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:16	
L32	10	@PD>="20081209" AND (348/240.3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/22 14:17	

L33	0	(((((first ADJ2 (group OR unit)) NEAR2 positive)) SAME	US-PGPUB; USPAT	OR	OFF	2009/04/22 15:
		(((second ADJ2 (group OR unit))				
		NEAR2 negative)) SAME (((third			***	
		ADJ2 (group OR unit)) NEAR2				
		positive)) AND (((fourth ADJ2				
		(group OR unit)) NEAR2				
		positive)) SAME (((fifth ADJ2				
		(group OR unit)) NEAR2				
		positive)) SAME ((((variable ADJ				
		(foc\$2 OR power OR				
	-	magnification)) OR zoom OR vari				
		\$1foc\$2) ADJ2 (lens OR optic\$2				
		OR imag\$3 OR objective))))				
		AND (((first ADJ2 (group OR				
		unit)) AND (third ADJ2 (group				
		OR unit)) AND (fifth ADJ2				
		(group OR unit))) SAME (fixed				
		OR stationary) SAME ((zoom\$3				
		OR ((magnification focal ADJ				
		length) NEAR2 (chang\$3 vari\$4				
		increas\$3)))) OR ((wide ADJ				
		angle) ADJ2 (mode end state)			***************************************	
		SAME telephoto ADJ2 (mode end				
		state) SAME (shift\$3 chang\$3)))				
		AND (((second ADJ2 (group OR				
		unit)) AND (fourth ADJ2 (group				
		OR unit))) SAME (mov\$3 OR				
		movable OR shift\$3) SAME				
		((zoom\$3 OR ((magnification				
		focal ADJ length) NEAR2 (chang				
		\$3 vari\$4 increas\$3))) OR ((wide				
	-	ADJ angle) ADJ2 (mode end				
		state) SAME telephoto ADJ2				
		(mode end state) SAME (shift\$3				
	-	(chang\$3))) AND (((third ADJ2				
		(group OR unit)) SAME (aperture				
		OR diaphragm OR stop))) AND				
		(((fifth NEAR2 (group OR unit))				
		SAME (positive AND negative)				
		SAME (lens OR element OR				
		component OR sub\$1group OR				
		sub\$1unit OR (sub ADJ lens ADJ				
	uuu	group) OR (sub ADJ lens ADJ				
		unit) OR sub\$1lens\$1group OR				
		sub\$1lens\$1unit))) AND (((fifth			3	
	uuu	NEAR2 (group OR unit)) SAME				
	3	(mov\$3 OR movable OR shift\$3)				
		SAME perpendicular ADJ2				
		(optical ADJ axis))) AND			·	
		((condition\$2 OR expression\$1				
		OR relation\$1 OR relationship\$1				
		OR equation\$1) SAME (fifth			****	
		ADJ2 (group OR unit)) SAME foc				
		\$2 SAME (positive ADJ2 (lens				
		OR element OR component OR			***************************************	•
		sub\$1group OR sub\$1unit OR				
		(sub ADJ lens ADJ group) OR				
		(sub ADJ lens ADJ unit) OR sub				
	3	\$1lens\$1group OR sub\$1lens				
	uuu	\$1unit))) AND (aspheric\$1				
	3	SAME fifth)).CLM.				
	: <b>S</b>		: «	> c		A

L34	0	((((((first ADJ2 (group OR unit))	US-PGPUB; USPAT	OR	OFF	2009/04/22 15:10
	,,,,,	NEAR2 positive)) SAME				
	min	(((second ADJ2 (group OR unit))			iiii	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NEAR2 negative)) SAME (((third				
		ADJ2 (group OR unit)) NEAR2			uu uu	
	mm	positive)) AND (((fourth ADJ2				
		(group OR unit)) NEAR2 positive)) SAME (((fifth ADJ2				
	,,,,,	\$**				
	anna.	(group OR unit)) NEAR2 positive)) SAME ((((variable ADJ			iii	
		\$ <b>-</b>				
		(foc\$2 OR power OR			uiii	
		magnification)) OR zoom OR vari				
		\$1foc\$2) ADJ2 (lens OR optic\$2			·iiii	
	,,,,,	OR imag\$3 OR objective))))				
		AND (((first ADJ2 (group OR			iiii	
		unit)) AND (third ADJ2 (group			uun	
	,,,,,	OR unit)) AND (fifth ADJ2				
		(group OR unit))) SAME (fixed				
		OR stationary) SAME ((zoom\$3			uun	
		OR ((magnification focal ADJ				
		length) NEAR2 (chang\$3 vari\$4		una		
		increas\$3)))) OR ((wide ADJ			un u	
		angle) ADJ2 (mode end state)				
		SAME telephoto ADJ2 (mode end		unna	1	
		state) SAME (shift\$3 chang\$3)))			uiii	
		AND (((second ADJ2 (group OR			III	
		unit)) AND (fourth ADJ2 (group				
		OR unit))) SAME (mov\$3 OR			uiii	
		movable OR shift\$3) SAME				
		((zoom\$3 OR ((magnification			· ini	
	min	focal ADJ length) NEAR2 (chang				
		\$3 vari\$4 increas\$3)))) OR ((wide				
		ADJ angle) ADJ2 (mode end			uni.	
	m	state) SAME telephoto ADJ2		***************************************		
		(mode end state) SAME (shift\$3			iiii	
		chang\$3))) AND (((third ADJ2			iiii	
		(group OR unit)) SAME (aperture				
		OR diaphragm OR stop))) AND			· in	
		(((fifth NEAR2 (group OR unit))			iii	
		SAME (positive AND negative)				
		SAME (lens OR element OR		uma	1	
	min	component OR sub\$1group OR			iii	
		sub\$1unit OR (sub ADJ lens ADJ				
		group) OR (sub ADJ lens ADJ			uun	
	,,,,,	unit) OR sub\$1lens\$1group OR				
		sub\$1lens\$1unit))) AND (((fifth			·ini	
		NEAR2 (group OR unit)) SAME			uun	
	m	(mov\$3 OR movable OR shift\$3)		***************************************		
		SAME perpendicular ADJ2			·iiii	
	,,,,,	(optical ADJ axis))) AND				
	mm	((condition\$2 OR expression\$1				
		OR relation\$1 OR relationship\$1			iiii	
	,,,,,	OR equation\$1) SAME (fifth				
	min	ADJ2 (group OR unit)) SAME foc			iiii	
		\$2 SAME (positive ADJ2 (lens				
		OR element OR component OR				
	um	sub\$1group OR sub\$1unit OR			1111	
	,,,,,,	(sub ADJ lens ADJ group) OR			ı	
	mm	(sub ADJ lens ADJ group) OR (sub ADJ lens ADJ unit) OR sub				
		\$1lens\$1group OR sub\$1lens				
	,,,,,,	\$1unit))) AND (aspheric\$1			ı	
	mm				· · · · · · · · · · · · · · · · · · ·	
		SAME fifth) AND (imaging ADJ			•	
	,,,,,,	(apparatus system device) SAME		***************************************	William William	
	}	convert\$3 SAME optical ADJ		1	3	1

	mount	image\$1 SAME electric\$2 ADJ signal\$1)).CLM.					***************************************
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